

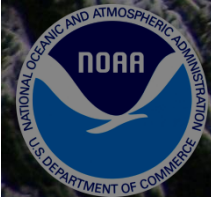
Western Washington Winter Weather

Storm Summary - Preliminary Results

14-23 January, 2012

Snowfall at the Langley Hill Radar

Updated





Synopsis

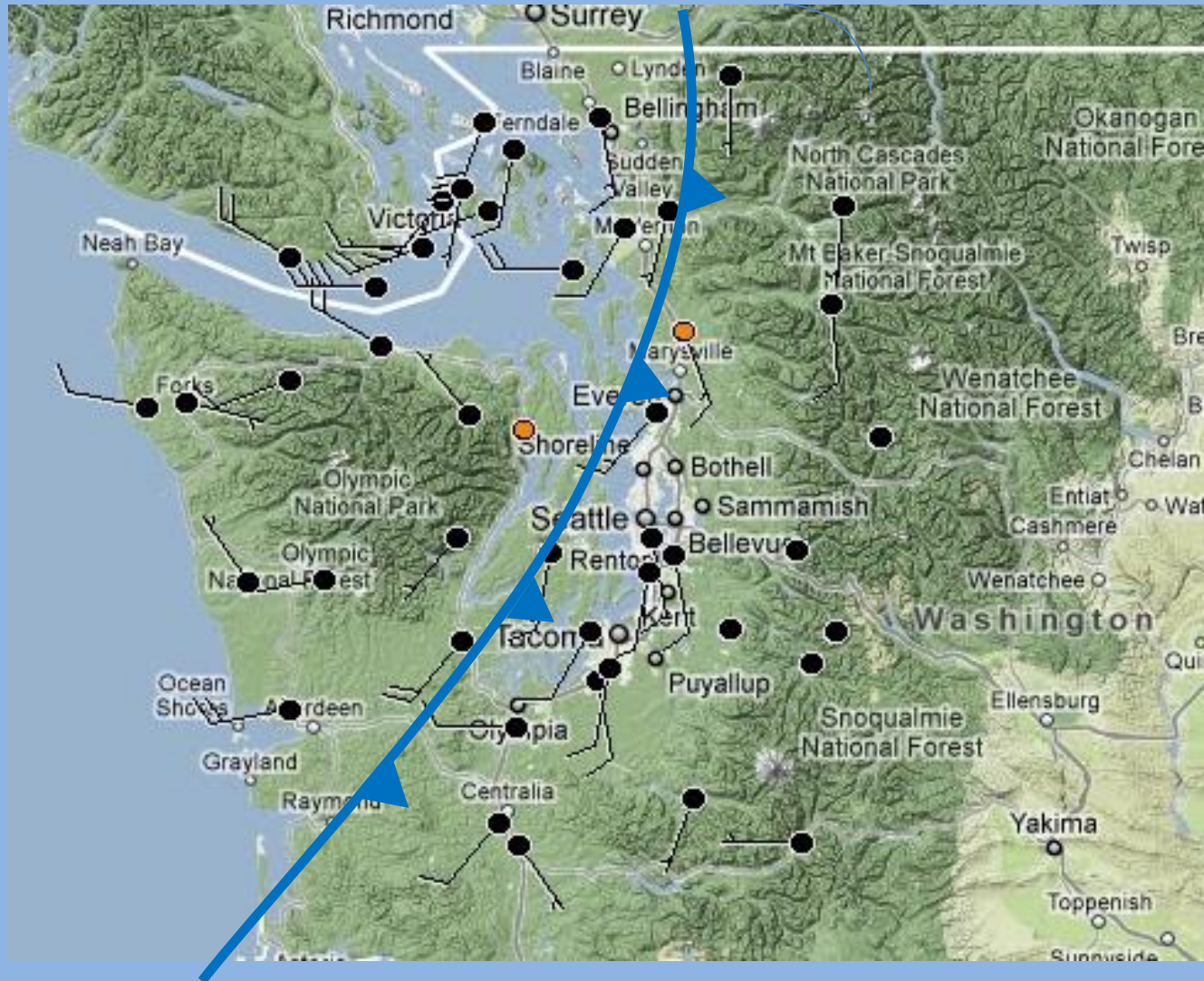
A cold air outbreak from Alaska swept into the Pacific Northwest beginning on Saturday, 14 January and continued through Friday, 20 January, 2012.

A series of storm systems within the outbreak brought a mix of significant mountain and lowland snow, wind and colder temperatures throughout the week, culminating in a historic freezing rain event that affected a significant portion of western Washington on Thursday, 19 January, 2012.



Saturday, January 14th (10 AM)

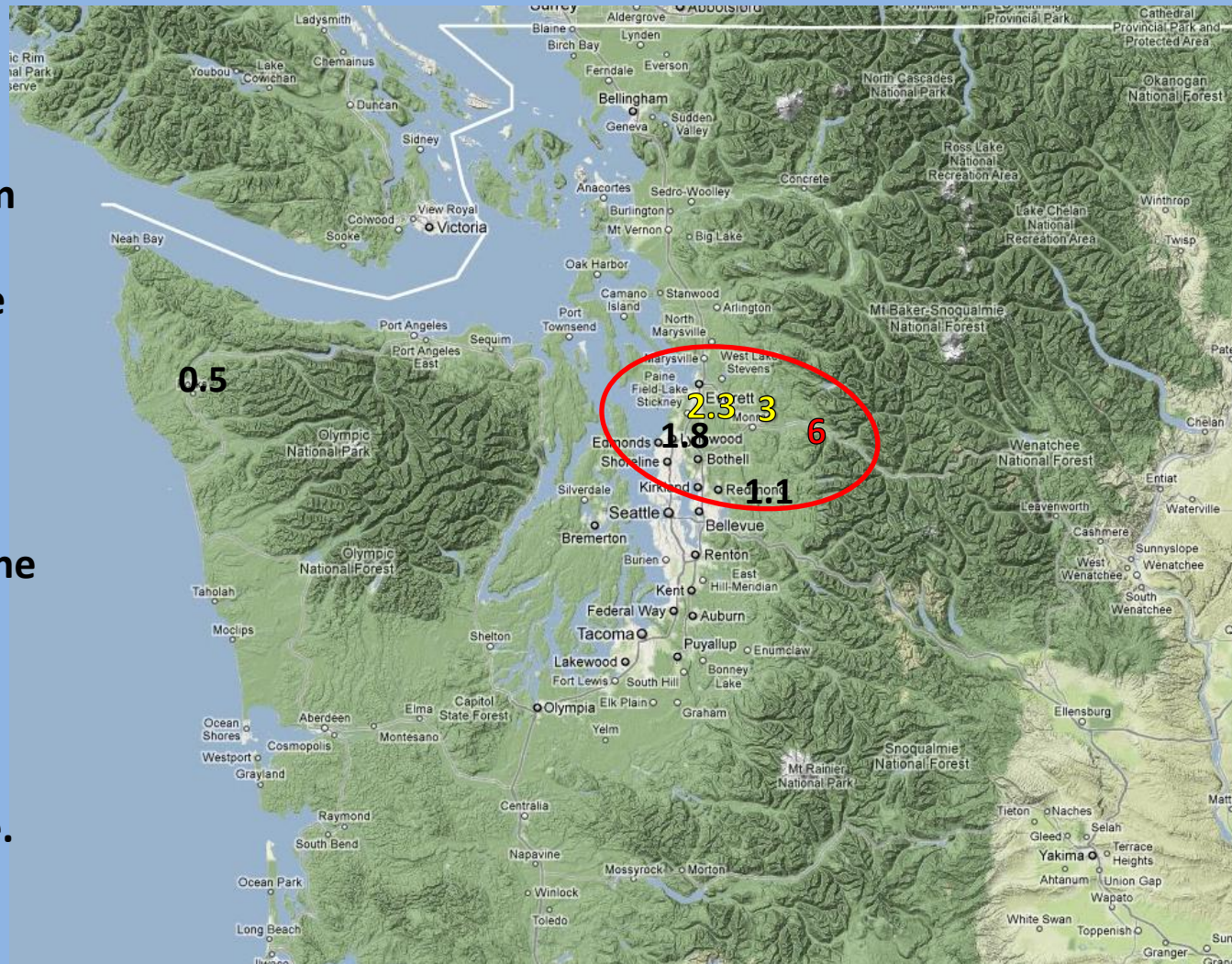
- A cold front swept across western Washington late Saturday morning ushering in the coldest air mass of the season.
- Snow levels quickly lowered from 2500 ft. near dawn to sea-level behind the cold front.
- Scattered snow showers spread across the lowlands and a convergence zone developed over Snohomish County.





Saturday, January 14th (5 PM)

- Scattered snow showers developed across western Washington with limited accumulations due to the ground still being warm.
- However, Heavy snow occurred from the late morning hours through the afternoon over southern Snohomish County and extreme northern King County due to the Puget Sound Convergence Zone.





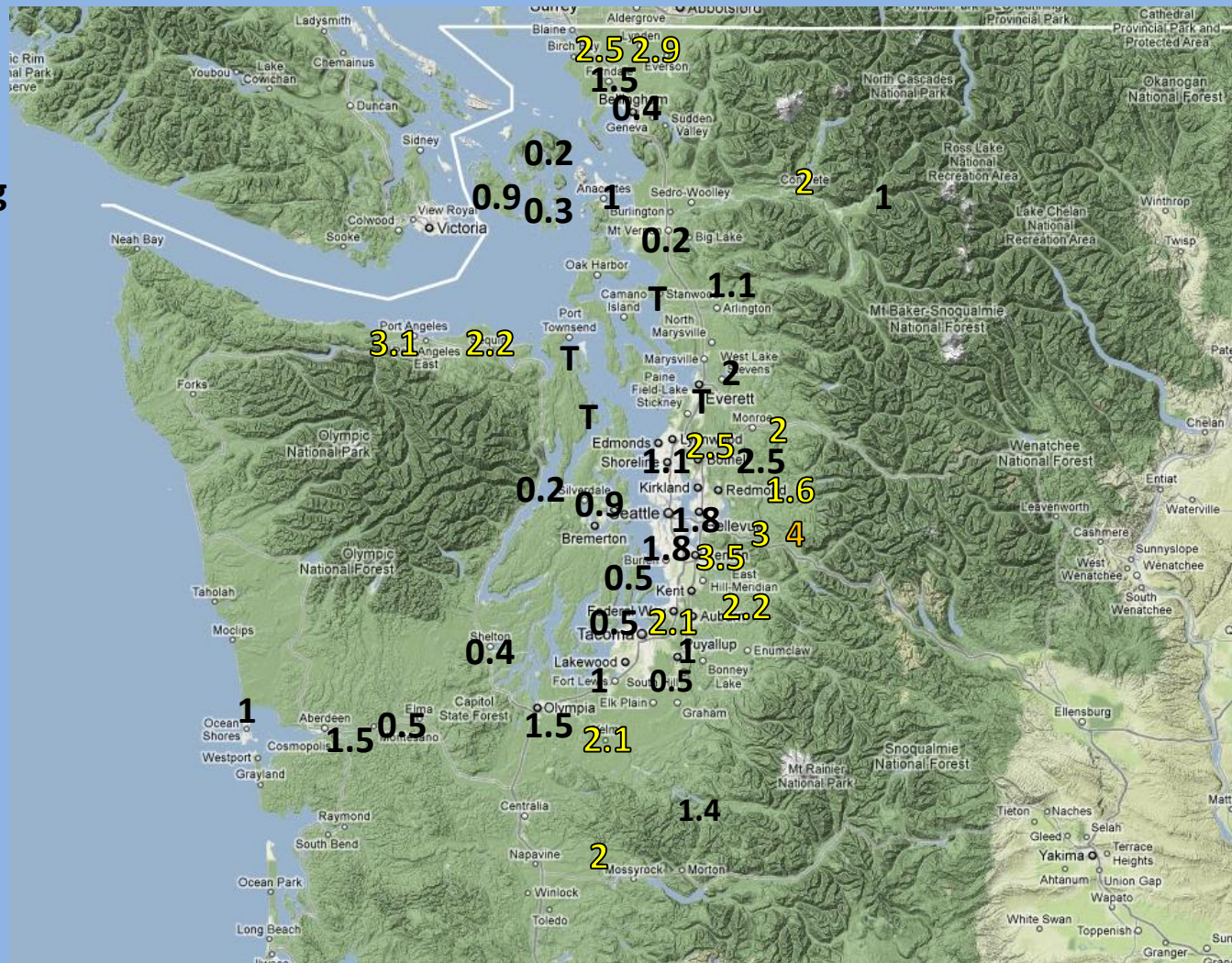
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Monday, January 16th

24hr Snowfall Ending at 7 AM

- An upper low over NW Washington moved east during the early morning hours with the snow having tapered off overnight as indicated on this map.
- The heaviest snows generally occurred near upslope regions of Clallam County and near the west slopes of the Cascades.
- Snow increased late in the day as a disturbance developed off the coast while arctic air spilled out of the Fraser valley. This snowfall is represented on the next map.



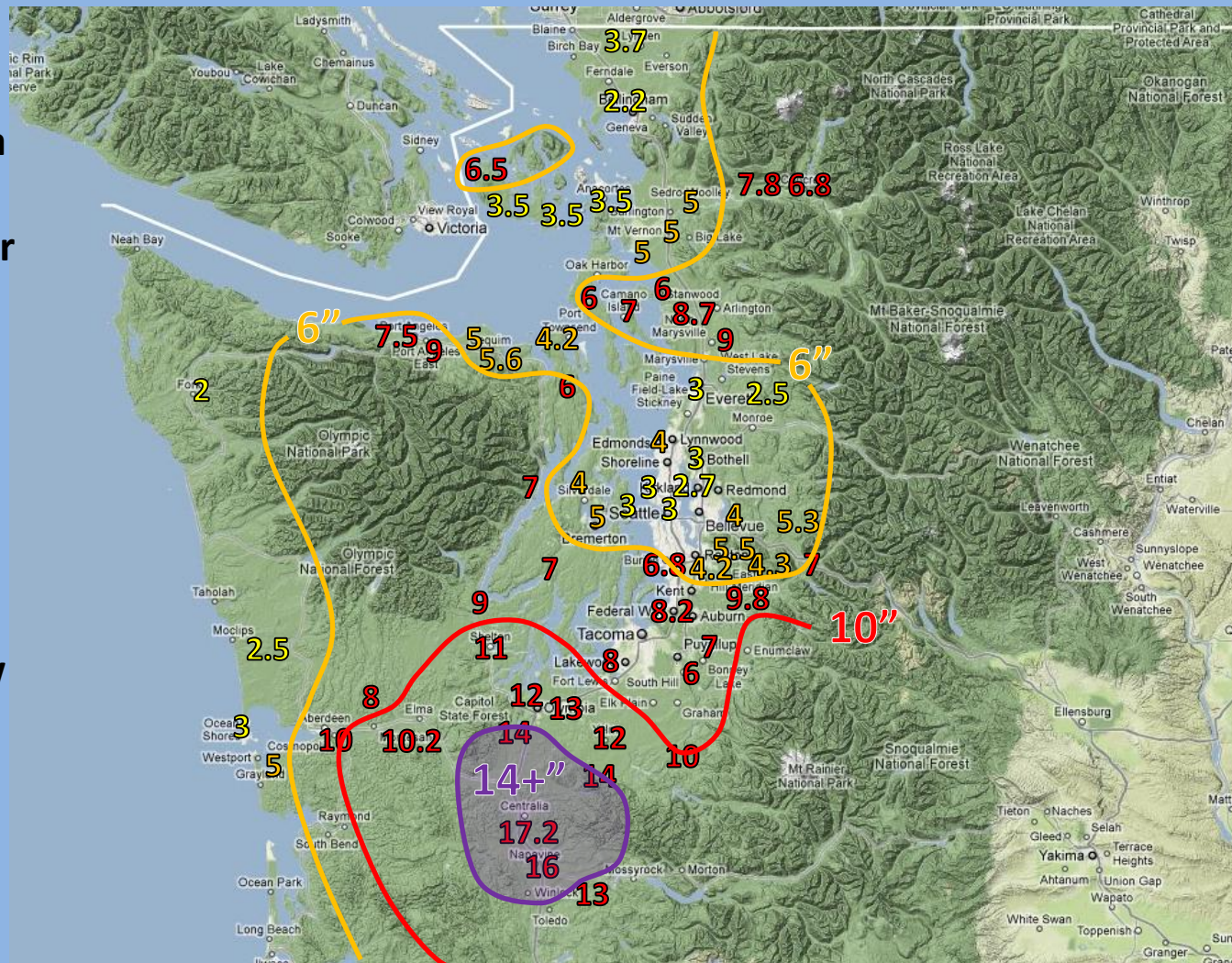


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- The map displays the distribution of 15 bird species across Washington state. The species are represented by colored numbers: 1 (black), 2 (yellow), 3 (yellow), 4 (yellow), 5 (yellow), 6 (red), 7 (red), 8 (red), 9 (red), 10 (red), 11 (red), 12 (red), 13 (red), 14 (red), 15 (red). The numbers are placed on the map to indicate the presence and relative abundance of each species in different regions. The map also shows major geographical features, including the Olympic Peninsula, the Cascade Range, and the Puget Sound area, as well as numerous cities and towns.



Wednesday, January 18th: Snowfall

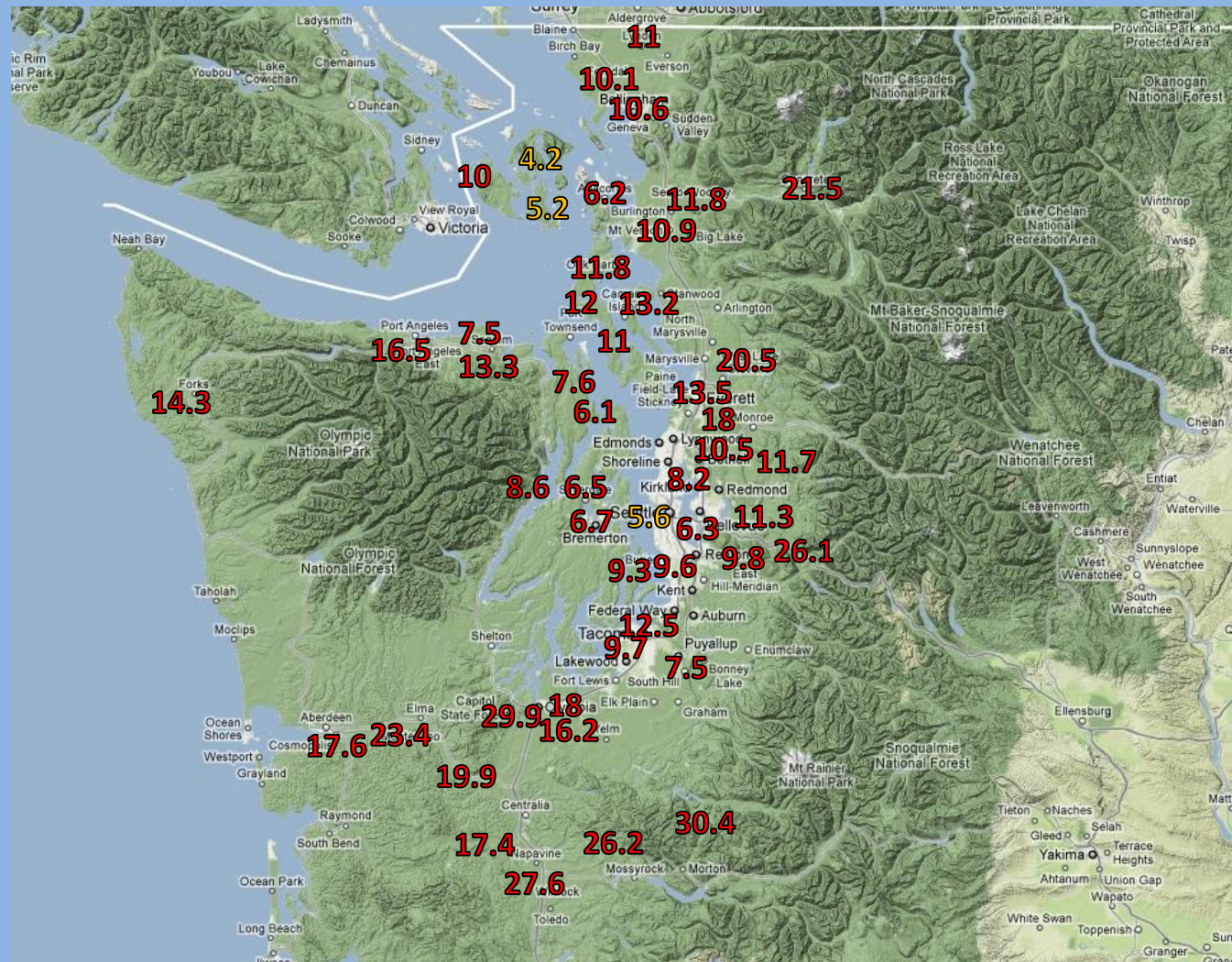
- A storm system moving inland near the Columbia River spread abundant moisture over the cold air locked in place over western Washington.
- This resulted in near record snowfall over the Southwest Interior.
- Strong northeast outflow out of the Fraser River valley produced heavy upslope snow near Port Angeles and Sequim.





Total Snowfall January 14th-20th

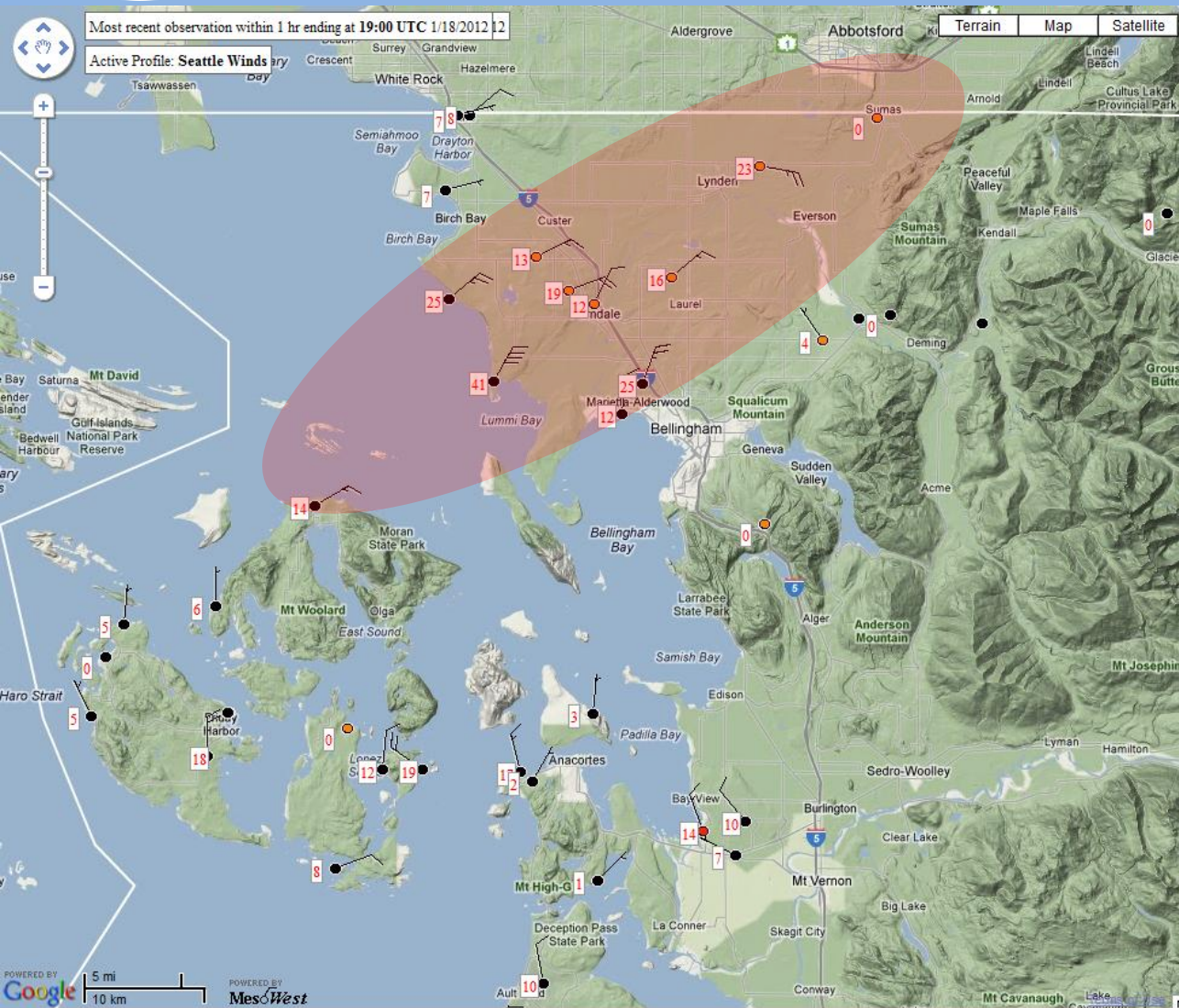
- Amounts shown are totals of daily snowfall reports through the cold outbreak.
- Observations include CoCoRaHS observers that reported each day through the event and the Sea-Tac, Quillayute and Olympia official climate locations.





Wednesday, January 18th: Winds

Period and location (North Interior) of strongest winds, around 11 AM PST

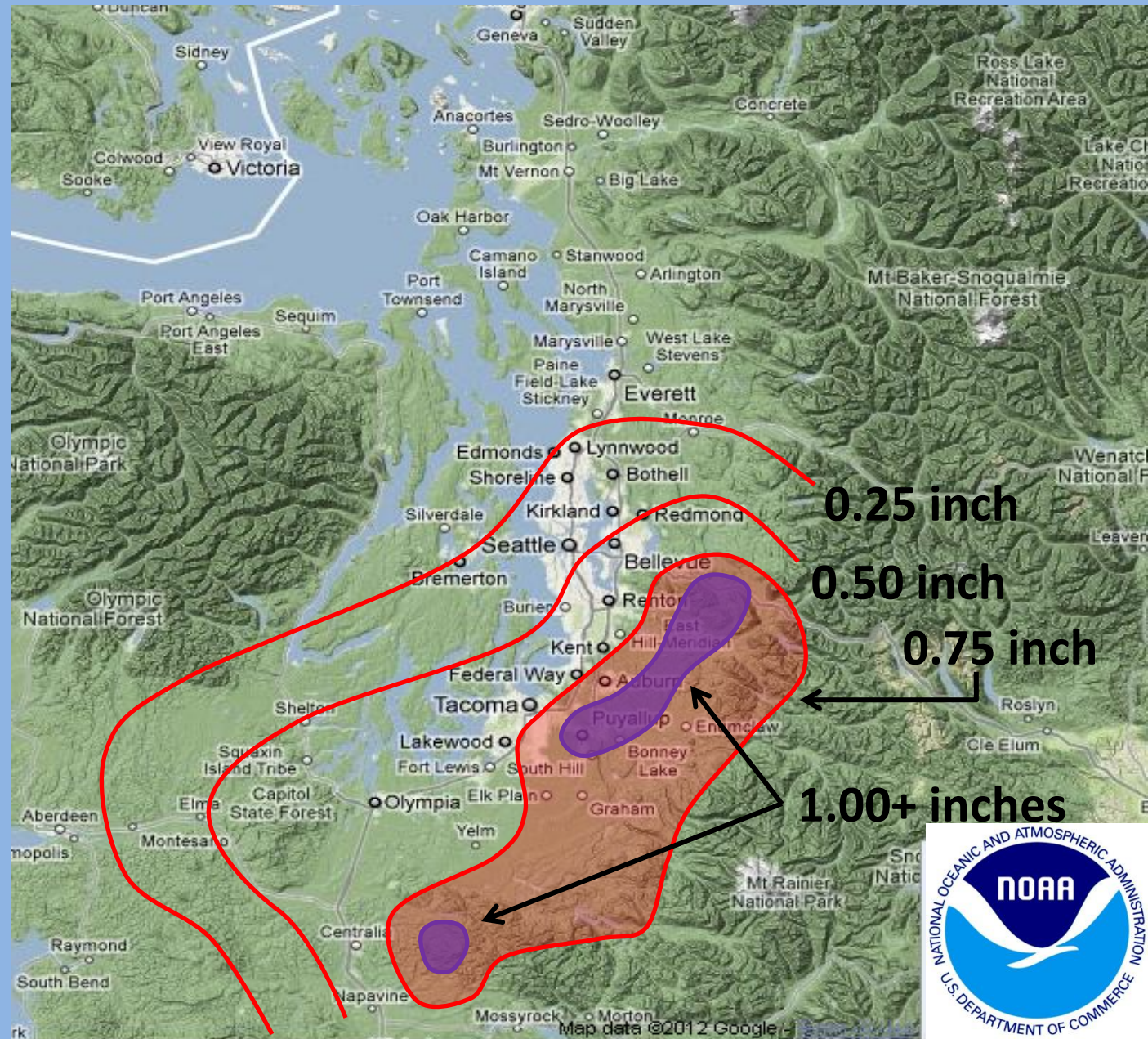


335 Active stations reporting. (Click on headers to sort data.)

Station	Temp	RH	DP	Wind ↑	Dir	Gust	Elev	Lat	Lon
• CW1394 Sandv Pt. S 01/18/2012 @ 10:55 PST	14	88	11	41	NNE	51	10	48.8	-122.71
• Buoy 46041 01/18/2012 @ 10:50 PST	38			27	E	31	0	47.3	-124.7
• Buoy 46088 01/18/2012 @ 10:50 PST	25			25	NNE	29	0	48.3	-123.2
• Bellingham Interna 01/18/2012 @ 10:53 PST	14	79	9	25	NNE	39	157	48.8	-122.54
• POINT ROBINSON COA 01/18/2012 @ 10:50 PST				25	N	29	10	47.39	-122.37
• Cherry Point 01/18/2012 @ 10:54 PST				25	NE	34	0	48.86	-122.76
• Hoquiam Bowerman 01/18/2012 @ 10:53 PST	32	92	30	23	ENE	33	13	46.97	-123.92
• DW3625 Lynden 01/18/2012 @ 10:58 PST	9	88	6	23	E	49	125	48.96	-122.4
• CW5456 Hansville 01/18/2012 @ 10:54 PST	30	96	29	22	N	24	49	47.92	-122.58
• Oquillavuta State A 01/18/2012 @ 10:53 PST	29	82	24	22	NE	30	194	47.94	-124.55
• Alki Point 01/18/2012 @ 10:30 PST				20	N	0	20	47.58	-122.42
Station	Temp	RH	DP	Wind ↑	Dir	Gust	Elev	Lat	Lon
• DW6057 Anacortes 01/18/2012 @ 10:53 PST	20	94	19	19	NW	29	7	48.51	-122.79
• CW0213 Ferndale 01/18/2012 @ 10:26 PST	9	88	6	19	ENE		351	48.87	-122.62
• Point Wilson 01/18/2012 @ 10:30 PST				19	NW	0	15	48.14	-122.75
• Southworth 01/18/2012 @ 10:20 PST	31			18	NW		33	47.51	-122.49
• Buoy 46109 01/18/2012 @ 10:57 PST	29			18	N		0	48.1	-123.4
• Friday Harbor Airp 01/18/2012 @ 10:53 PST	20	77	14	18	N	31	108	48.52	-123.03
• Neah Bay 01/18/2012 @ 10:54 PST	34			17	ENE	25	0	48.37	-124.62
• Tacoma Narrows Air 01/18/2012 @ 10:53 PST	30	92	28	17	N	31	315	47.27	-122.58
• Anacortes 01/18/2012 @ 10:20 PST	23			17	NNW		33	48.51	-122.68
• Point No Point 01/18/2012 @ 10:30 PST				17	NNW	0	15	47.91	-122.53
• FIRE TRNG ACADEMY 01/18/2012 @ 10:55 PST	29	98	29	16	ESE	27	1580	47.46	-121.67
• Bremerton National 01/18/2012 @ 10:55 PST	28	86	25	16	NNE	22	440	47.5	-122.75
Station	Temp	RH	DP	Wind ↑	Dir	Gust	Elev	Lat	Lon

Approximate Freezing Rain/Drizzle Accumulation from the Evening of January 18th through the afternoon of January 19th

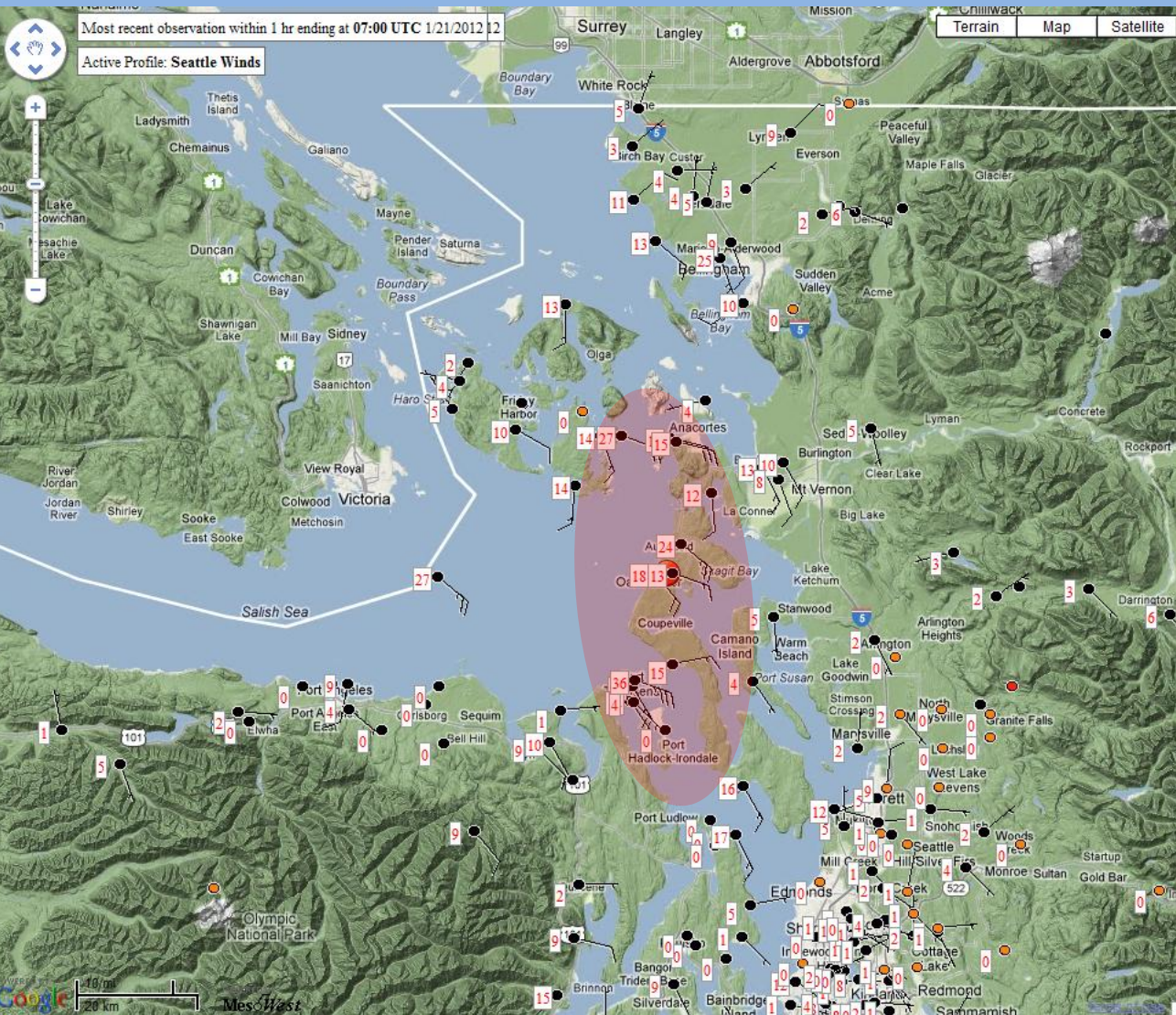
- A warm front remained south of the region through the day.
- Near the surface, northerly flow across the area maintained below freezing temperatures over western Washington.
- Abundant moisture streamed north over this cold layer, producing a historic freezing rain event.
- An Ice Storm Warning was issued early on Thursday, January 19:
 - First issuance ever for Western WA
 - Activation of EAS.





Friday, January 21st: Winds

Period and location (Admiralty Inlet/East Strait) of strongest winds, around 11 PM PST



297 Active stations reporting. (Click on headers to sort data.)

Station	Temp	RH	DP	Wind ↑	Dir	Gust	Elev	Lat	Lon
• Point Wilson 01/20/2012 @ 22:30 PST				36	ESE	0	15	48.14	-122.75
• DW6057 Anacortes 01/20/2012 @ 22:44 PST	47	90	44	27	ESE	32	7	48.51	-122.79
• Buoy 46088 01/20/2012 @ 22:50 PST	45			27	SE	31	0	48.3	-123.2
• CW9778 Bellingham 01/20/2012 @ 22:58 PST	50	83	45	25	SSE	42	66	48.78	-122.56
• Buoy 46041 01/20/2012 @ 22:50 PST	49			25	S	29	0	47.3	-124.7
• Whidbey Island, Na 01/20/2012 @ 22:56 PST	46	82	41	24	SE	36	46	48.35	-122.65
• CW8316 Port Townsend 01/20/2012 @ 22:07 PST	43	100	43	24	SSE		23	48.14	-122.76
• Hoquiam, Bowerman 01/20/2012 @ 22:53 PST	50	94	48	23	S	33	13	46.97	-123.92
• Anacortes 01/20/2012 @ 22:50 PST	49			18	ESE		33	48.51	-122.68
• DW0288 Oak Harbor 01/20/2012 @ 22:59 PST	44	59	31	18	SE	29	39	48.3	-122.71
• Point No Point 01/20/2012 @ 22:30 PST				17	SSE	0	15	47.91	-122.53
Station	Temp	RH	DP	Wind ↑	Dir	Gust	Elev	Lat	Lon
• DW9051 Freeland 01/20/2012 @ 22:59 PST	44	95	43	16	SSE	19	10	47.98	-122.51
• CW2882 Anacortes 01/20/2012 @ 22:59 PST	47	88	44	15	ESE	29	230	48.5	-122.66
• Keystone 01/20/2012 @ 22:55 PST	44			15	E		10	48.16	-122.67
• ERINB Pleasant Har 01/20/2012 @ 22:55 PST	40			15	SW	23	689	47.67	-122.93
• Alki Point 01/20/2012 @ 22:30 PST				15	SSE	0	20	47.58	-122.42
• DW5375 Decatur Isl 01/20/2012 @ 22:55 PST	45	91	43	14	SSE	22	53	48.51	-122.83
• CW6225 Lopez Villa 01/20/2012 @ 22:56 PST	44	91	42	14	S		98	48.44	-122.89
• CW8576 Port Townsend 01/20/2012 @ 22:59 PST	43	100	43	14	SE	17	190	48.11	-122.77
• HUMPTULLIPS 01/20/2012 @ 22:59 PST	41	100	41	14	SE	38	2400	47.37	-123.76
• Quillavute State A 01/20/2012 @ 22:53 PST	49			13	S	29	194	47.94	-124.55
• Eastsound, Orcas I 01/20/2012 @ 22:55 PST	46	87	43	13	S	23	30	48.71	-122.91
• CW1625 Oak Harbor 01/20/2012 @ 22:46 PST	42	93	40	13	ESE		158	48.31	-122.67
Station	Temp	RH	DP	Wind ↑	Dir	Gust	Elev	Lat	Lon



Mountain Snowfall

January 14th – January 23rd

- Five to eight feet of snow fell across the mountains through the 10 day period.
- The heaviest single day amounts included 2 feet at Stevens and Snoqualmie passes on January 17th.
- A rather dry late December left a crusted snowpack in the mountains. This new heavy snow on top of the old crust created very hazardous avalanche conditions resulting in numerous long delays in travel across the passes.

